



## Lipid Peroxidation: Analysis and Applications in Biological Systems

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### Message from the Guest Editors

It is globally known the interaction of free radical/reactive oxygen species (ROS) in lipid metabolism are the core source of lipid peroxidation reaction in the biological systems. The metabolites released can be biomarkers of oxidative stress such as isoprostanes in mammals and phytoprostanes in plants and food or act as mediators in signalling pathways to redox responses, and even displayed some health benefits. Collectively, they are also known as oxylipins and are ubiquitous in the living system. However, proper selection of analysis for valid evaluation of antioxidant potential in desired applications is needed to understand the principle mechanisms of these oxylipins including synthesis, distribution, metabolism, and excretion in plants and mammals. This Special Issue welcomes papers on aspects of oxylipins derived from polyunsaturated fatty acids related to the following topics: health and diseases, metabolism, antioxidants, analytical views, chemistry and biomarkers.





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## Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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